

# SAFETY DATA SHEET



## CO2/1KG & CO2/1KG/REFIL

<b>1. SUPPLIER</b>	Sealey Quality Machinery, Kempson Way, Suffolk Business Park, Bury St. Edmunds, Suffolk. IP32 7AR.	Telephone: 01284 757500 Fax: 01284 703534 E-mail: sales@sealey.co.uk Web: www.sealey.co.uk
<b>2. APPLICATION</b>	Portable sized CO <sub>2</sub> refillable gas cylinder for the jobbing welder.	
<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>	Components/Impurities: Contains no other components or impurities which will influence the classification of the product.  CAS No: 00124-38-9 EEC No (from EINEC8): 204-696-9	
<b>4. HAZARD IDENTIFICATION</b>	Liquefied gas. In high concentrations may cause asphyxiation. Contact with liquid may cause cold burns/frost bite.	
<b>5. FIRST AID MEASURES</b>	Inhalation:	In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO <sub>2</sub> cause increased respiration and headache. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing has stopped.
	Ingestion:	Ingestion is not considered a potential route of exposure.
	Eye & Skin contact:	Immediately flush eyes thoroughly with water for at least 15 minutes. In case of frost bite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
<b>6. FIRE-FIGHTING MEASURES</b>	Specific Hazards:	Non flammable. Exposure to fire may cause containers to rupture/explode.
	Combustion products:	None.
	Extinguishing media:	All known extinguishants can be used.
	Specific methods:	If possible, stop flow of product. Move container away or cool with water from a protected position. Inform emergency services of the nature of the product.
	Protective equipment:	In confined space use self contained breathing apparatus.
<b>7. ACCIDENTAL RELEASE MEASURES</b>	Personal precautions:	Evacuate area. Wear self contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.
	Environmental:	Try to stop release. Prevent it from entering sewers, basements, and work pits, or any places where accumulation can be dangerous.
	Clean up methods:	Ventilate area.
<b>8. STORAGE AND HANDLING</b>	Handling:	Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Refer to suppliers container handling instructions.
	Storage:	Keep container below 50°C in a well ventilated place.
<b>9. EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>	Exposure limit value TLV(ACGIH) 5000ppm (1994 - 1995 edition)	Personal protection: Ensure adequate ventilation.
<b>10. PHYSICAL &amp; CHEMICAL PROPERTIES</b>	Molecular weight: 44 Melting point: -56.6°C Boiling point: -78.5°C Critical temperature: 90°C Relative Density gas: 1.52 (air=1) Relative Density liquid: 0.82 (water=1) Vapour pressure 20°C: 57.3bar Solubility into water: 2000mg/l Colour: Colourless gas Odour: None perceptible Other data: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.	
<b>11. STABILITY &amp; REACTIVITY</b>	Stable under normal conditions.	
<b>12. TOXICOLOGICAL INFORMATION</b>	General:	Low concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.
<b>13. ECOLOGICAL INFORMATION</b>	General: Global Warning factor: 1	When discharged in large quantities may contribute to the greenhouse effect.
<b>14. DISPOSAL CONSIDERATIONS</b>	General:	Do not discharge into any place where accumulation could be dangerous. To atmosphere in a well ventilated place. Discharge to atmosphere in large quantities should be avoided. Contact supplier if guidance is required.

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**15. TRANSPORT INFORMATION**

Proper Shipping Name: Carbon Dioxide

UN No: 1013

Class Division: 2.2

ADR/RID Item No: 2.2A

Labelling: ADR

Label 2: Non flammable non toxic gas

ADR/RID Hazard No: 20

Other transport information:

Avoid transport on vehicles where the load space is not separated from the drivers compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and:-

- Cylinder valve is closed and not leaking.
- Valve outlet cap nut or plug (where provided) is correctly fitted.
- Valve protection device (where provided) is correctly fitted.
- There is adequate ventilation.
- Compliance with applicable regulations.

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**16. REGULATORY INFORMATION**

Number in Annex 1 of Dir 67/548:

Not included in Annex 1.

EC Classification:

Proposed by the industry: Not classified as dangerous substance.

Labelling of cylinders:

- Symbols: No symbol required.
- Risk phrases: RAs Asphyxiant in high concentrations.
- Safety phrases: S9 Keep container in a well ventilated place.  
S23 Do not breathe the gas.

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**17. OTHER INFORMATION**

Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Contact with liquid may cause cold burns/frost bite. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.